## SEQUENCE LISTING

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<151> 2004-01-30
<150> PCT/US03/25004
<151> 2003-08-07
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Ser Asp Asn Ala Gln Leu Arg Ser Val Asp Pro Ala Thr Phe His Gly

115 120 125

Leu Gly Arg Leu His Thr Leu His Leu Asp Arg Cys Gly Leu Gln Glu 135 Leu Gly Pro Gly Leu Phe Arg Gly Leu Ala Ala Leu Gln Tyr Leu Tyr 150 155 Leu Gln Asp Asn Ala Leu Gln Ala Leu Pro Asp Asp Thr Phe Arg Asp 165 170 Leu Gly Asn Leu Thr His Leu Phe Leu His Gly Asn Arg Ile Ser Ser Val Pro Glu Arg Ala Phe Arg Gly Leu His Ser Leu Asp Arg Leu Leu Leu His Gln Asn Arg Val Ala His Val His Pro His Ala Phe Arg Asp 215 Leu Gly Arg Leu Met Thr Leu Tyr Leu Phe Ala Asn Asn Leu Ser Ala 230 Leu Pro Thr Glu Ala Leu Ala Pro Leu Arg Ala Leu Gln Tyr Leu Arg 250 Leu Asn Asp Asn Pro Trp Val Cys Asp Cys Arg Ala Arg Pro Leu Trp Ala Trp Leu Gln Lys Phe Arg Gly Ser Ser Ser Glu Val Pro Cys Ser Leu Pro Gln Arg Leu Ala Gly Arg Asp Leu Lys Arg Leu Ala Ala Asn 290 Asp Leu Gln Gly Cys Ala Val Ala Thr Gly Pro Tyr His Pro Ile Trp Thr Gly Arg Ala Thr Asp Glu Glu Pro Leu Gly Leu Pro Lys Cys Cys 335 330

Gln Pro Asp Ala Ala Asp Lys Ala 340

<210> 7

<211> 310

<212> PRT

<213> Homo sapiens

<400> 7

Met Lys Arg Ala Ser Ala Gly Gly Ser Arg Leu Leu Ala Trp Val Leu 1 5 10 15

Trp Leu Gln Ala Trp Gln Val Ala Ala Pro Cys Pro Gly Ala Cys Val

Cys Tyr Asn Glu Pro Lys Val Thr Thr Ser Cys Pro Gln Gln Gly Leu 35 40 45

Gln Ala Val Pro Val Gly Ile Pro Ala Ala Ser Gln Arg Ile Phe Leu

50 55 60

His Gly Asn Arg Ile Ser His Val Pro Ala Ala Ser Phe Arg Ala Cys
65 70 75 80

Arg Asn Leu Thr Ile Leu Trp Leu His Ser Asn Val Leu Ala Arg Ile 85 90 95

Asp Ala Ala Ala Phe Thr Gly Leu Ala Leu Leu Glu Gln Leu Asp Leu 100 105 110

Ser Asp Asn Ala Gln Leu Arg Ser Val Asp Pro Ala Thr Phe His Gly
115 120 125

Leu Gly Arg Leu His Thr Leu His Leu Asp Arg Cys Gly Leu Gln Glu 130 135 140

Leu Gly Pro Gly Leu Phe Arg Gly Leu Ala Ala Leu Gln Tyr Leu Tyr 145 150 155 160

Leu Gln Asp Asn Ala Leu Gln Ala Leu Pro Asp Asp Thr Phe Arg Asp 165 170 175

Leu Gly Asn Leu Thr His Leu Phe Leu His Gly Asn Arg Ile Ser Ser 180 185 190

Val Pro Glu Arg Ala Phe Arg Gly Leu His Ser Leu Asp Arg Leu Leu 195 200 205

Leu His Gln Asn Arg Val Ala His Val His Pro His Ala Phe Arg Asp 210 215 220

Leu Gly Arg Leu Met Thr Leu Tyr Leu Phe Ala Asn Asn Leu Ser Ala 225 230 235 240

Leu Pro Thr Glu Ala Leu Ala Pro Leu Arg Ala Leu Gln Tyr Leu Arg 245 250 255

Leu Asn Asp Asn Pro Trp Val Cys Asp Cys Arg Ala Arg Pro Leu Trp 260 265 270

Ala Trp Leu Gln Lys Phe Arg Gly Ser Ser Ser Glu Val Pro Cys Ser 275 280 285

Leu Pro Gln Arg Leu Ala Gly Arg Asp Leu Lys Arg Leu Ala Ala Asn 290 295 300

Asp Leu Gln Gly Cys Ala 305 310

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Trp Leu Gln Ala Trp Arg Val Ala Thr Pro Cys Pro Gly Ala Cys Val

Cys Tyr Asn Glu Pro Lys Val Thr Thr Ser Arg Pro Gln Gln Gly Leu 40 Gln Ala Val Pro Ala Gly Ile Pro Ala Ser Ser Gln Arg Ile Phe Leu His Gly Asn Arg Ile Ser Tyr Val Pro Ala Ala Ser Phe Gln Ser Cys 70 Arg Asn Leu Thr Ile Leu Trp Leu His Ser Asn Ala Leu Ala Gly Ile 90 Asp Ala Ala Ala Phe Thr Gly Leu Thr Leu Leu Glu Gln Leu Asp Leu 105 Ser Asp Asn Ala Gln Leu Arg Val Val Asp Pro Thr Thr Phe Arg Gly 120 Leu Gly His Leu His Thr Leu His Leu Asp Arg Cys Gly Leu Gln Glu 135 130 Leu Gly Pro Gly Leu Phe Arg Gly Leu Ala Ala Leu Gln Tyr Leu Tyr 155 150 Leu Gln Asp Asn Asn Leu Gln Ala Leu Pro Asp Asn Thr Phe Arg Asp 170 Leu Gly Asn Leu Thr His Leu Phe Leu His Gly Asn Arg Ile Pro Ser 185 Val Pro Glu His Ala Phe Arg Gly Leu His Ser Leu Asp Arg Leu Leu Leu His Gln Asn His Val Ala Arg Val His Pro His Ala Phe Arg Asp Leu Gly Arg Leu Met Thr Leu Tyr Leu Phe Ala Asn Asn Leu Ser Met Leu Pro Ala Glu Val Leu Val Pro Leu Arg Ser Leu Gln Tyr Leu Arg 250 Leu Asn Asp Asn Pro Trp Val Cys Asp Cys Arg Ala Arg Pro Leu Trp 260 265 Ala Trp Leu Gln Lys Phe Arg Gly Ser Ser Ser Gly Val Pro Ser Asn 280 Leu Pro Gln Arg Leu Ala Gly Arg Asp Leu Lys Arg Leu Ala Thr Ser 300 295 Asp Leu Glu Gly Cys Ala Val Ala Ser Gly Pro Phe Arg Pro Phe Gln Thr Asn Gln Leu Thr Asp Glu Glu Leu Leu Gly Leu Pro Lys Cys Cys 330 335 Gln Pro Asp Ala Ala Asp Lys Ala

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<213> Rattus sp.

<400> 9

Met Lys Arg Ala Ser Ser Gly Gly Ser Arg Leu Pro Thr Trp Val Leu

1 10 15

Trp Leu Gln Ala Trp Arg Val Ala Thr Pro Cys Pro Gly Ala Cys Val 20 25 30

Cys Tyr Asn Glu Pro Lys Val Thr Thr Ser Arg Pro Gln Gln Gly Leu 35 40 45

Gln Ala Val Pro Ala Gly Ile Pro Ala Ser Ser Gln Arg Ile Phe Leu 50 55 60

His Gly Asn Arg Ile Ser Tyr Val Pro Ala Ala Ser Phe Gln Ser Cys
65 70 75 80

Arg Asn Leu Thr Ile Leu Trp Leu His Ser Asn Ala Leu Ala Gly Ile 85 90 95

Asp Ala Ala Phe Thr Gly Leu Thr Leu Leu Glu Gln Leu Asp Leu
100 105 110

Ser Asp Asn Ala Gln Leu Arg Val Val Asp Pro Thr Thr Phe Arg Gly
115 120 125

Leu Gly His Leu His Thr Leu His Leu Asp Arg Cys Gly Leu Gln Glu 130 135 140

Leu Gly Pro Gly Leu Phe Arg Gly Leu Ala Ala Leu Gln Tyr Leu Tyr 145 150 155 160

Leu Gln Asp Asn Asn Leu Gln Ala Leu Pro Asp Asn Thr Phe Arg Asp 165 170 175

Leu Gly Asn Leu Thr His Leu Phe Leu His Gly Asn Arg Ile Pro Ser 180 185 190

Val Pro Glu His Ala Phe Arg Gly Leu His Ser Leu Asp Arg Leu Leu 195 200 205

Leu His Gln Asn His Val Ala Arg Val His Pro His Ala Phe Arg Asp 210 215 220

Leu Gly Arg Leu Met Thr Leu Tyr Leu Phe Ala Asn Asn Leu Ser Met 225 230 235 240

Leu Pro Ala Glu Val Leu Val Pro Leu Arg Ser Leu Gln Tyr Leu Arg
245 250 255

Leu Asn Asp Asn Pro Trp Val Cys Asp Cys Arg Ala Arg Pro Leu Trp
260 265 270

Ala Trp Leu Gln Lys Phe Arg Gly Ser Ser Ser Gly Val Pro Ser Asn 275 280 285

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Leu Pro Gln Arg Leu Ala Gly Arg Asp Leu Lys Arg Leu Ala Thr Ser
    290
                        295
Asp Leu Glu Gly Cys Ala
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<211> 15
<212> PRT
<213> Artificial Sequence
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Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser
<210> 11
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<212> PRT
<213> Rattus sp.
<400> 11
Arg Val His Pro His Ala Phe Arg Asp Leu Gly Arg Leu Met Thr Leu
                                     10
                  5
Tyr Leu Phe
<210> 12
<211> 34
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<213> Artificial Sequence
<223> Description of Artificial Sequence: Primer
tgaggagacg gtgaccgtgg tcccttggcc ccag
                                                                   34
<210> 13
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<213> Artificial Sequence
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ggggatatcc accatgaagt tgcctgttag gctgttg
<210> 14
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<212> DNA

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Ser Ser Ser Asp Val Val Met Thr Gln Thr Pro Leu Ser Leu Pro Val 20 25 30

Ser Leu Gly Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu 35 40 45

Val His Ser Asn Gly Tyr Thr Tyr Leu His Trp Tyr Leu Gln Arg Pro 50 55 60

Gly Gln Ser Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser 65 70 75 80

Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr 85 90 95

Leu Lys Ile Ser Arg Val Asp Ala Glu Asp Leu Gly Val Tyr Phe Cys
100 105 110

Ser Gln Ser Thr His Val Pro Tyr Thr Phe Gly Gly Thr Lys Leu 115 120 125

Glu Ile Lys Arg Ala Asp Ala Ala Pro Thr Val Ser Ile Ser His His 130 135 140

<210> 17

<211> 116

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic heavy chain peptide sequence

<400> 17

Val Gln Leu Gln Glu Ser Gly Ala Glu Leu Val Met Pro Gly Ala Ser 1 5 10 15

Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr Trp
20 25 30

Met His Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile Gly 35 40 45

Ala Ile Asp Pro Ser Asp Ser Tyr Ser Ser Tyr Asn Gln Asn Phe Lys
50 55 60

Gly Lys Ala Thr Leu Thr Val Asp Gly Ser Ser Ser Thr Ala Tyr Met 65 70 75 80

Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys Ala 85 90 95

Arg Arg Ile Thr Glu Ala Gly Ala Trp Phe Ala Tyr Trp Gly Gln Gly
100 105 110

Thr Thr Val Thr 115

<210> 18

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<220>
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Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Phe Trp Met His
                                 25
Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile Gly Ala Ile
Asp Pro Ser Asp Ser Tyr Ser Arg Ile Asn Gln Lys Phe Lys Gly Lys
Ala Thr Leu Thr Val Asp Glu Ser Ser Ser Thr Ala Tyr Met Gln Leu
                     70
Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys Ala Arg Arg
Ile Thr Glu Ala Gly Ala Trp Phe Ala Tyr Trp Gly Gln Gly Thr Thr
                                 105
Val Thr
<210> 19
<211> 12
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      heavy chain peptide sequence
<400> 19
Gly Phe Ser Leu Ser Thr Ser Gly Gly Ser Val Gly
                  5
<210> 20
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<223> Description of Artificial Sequence: Synthetic
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heavy chain peptide sequence

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<400> 20
Leu Ile Tyr Ser Asn Asp Thr Lys Tyr Tyr Ser Thr Ser Leu Lys Thr
                                     10
<210> 21
<211> 10
<212> PRT
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Ser Arg Phe Trp Thr Gly Glu Tyr Asp Val
<210> 22
<211> 11
<212> PRT
<213> Artificial Sequence
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<223> Description of Artificial Sequence: Synthetic
     light chain peptide sequence
<400> 22
Arq Ala Ser Gln Asn Ile Ala Ile Thr Leu Asn
                  5
<210> 23
<211> 7
<212> PRT
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      light chain peptide sequence
<400> 23
Leu Ala Ser Ser Leu Gln Ser
 1
                  5
<210> 24
<211> 8
<212> PRT
<213> Artificial Sequence
<223> Description of Artificial Sequence: Synthetic
      light chain peptide sequence
<400> 24
Gln Gln Tyr Asp Asn Tyr Pro Leu
 1
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<210> 25
<211> 22
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: Degenerate
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<400> 25
                                                                    22
aggtsmarct gcagsagtcw gg
<210> 26
<211> 22
<212> PRT
<213> Unknown Organism
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Ala Ala Phe Thr Gly Leu Thr Leu Leu Glu Gln Leu Asp Leu Ser Asp
                  5
                                      10
Asn Ala Gln Leu Arg
         20
<210> 27
<211> 10
<212> PRT
<213> Unknown Organism
<223> Description of Unknown Organism: Epitope
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Leu Asp Leu Ser Asp Asn Ala Gln Leu Arg
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<210> 28
<211> 6
<212> PRT
<213> Unknown Organism
<223> Description of Unknown Organism: Epitope
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<400> 28
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<210> 29
<211> 10
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<212> PRT
<213> Unknown Organism
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<210> 30
<211> 11
<212> PRT
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<210> 31
<211> 11
<212> PRT
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Leu Asp Leu Ala Ser Asp Asp Ala Glu Leu Arg
                  5
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Leu Asp Ala Leu Ser Asp Asn Ala Gln Leu Arg
                  5
                                      10
<210> 33
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recognized by the 7E11 monoclonal antibody <400> 33 Leu Asp Ala Leu Ser Asp Asp Ala Glu Leu Arg <210> 34 <211> 11 <212> PRT <213> Unknown Organism <220> <223> Description of Unknown Organism: Epitope recognized by the 7E11 monoclonal antibody <400> 34 Leu Asp Leu Ser Ser Asp Asn Ala Gln Leu Arg <210> 35 <211> 11 <212> PRT <213> Unknown Organism <223> Description of Unknown Organism: Epitope recognized by the 7E11 monoclonal antibody Leu Asp Leu Ser Ser Asp Glu Ala Glu Leu Arg <210> 36 <211> 12 <212> PRT <213> Unknown Organism <223> Description of Unknown Organism: Epitope recognized by the 7E11 monoclonal antibody Asp Asn Ala Gln Leu Arg Val Val Asp Pro Thr Thr 5 10 <210> 37 <211> 6 <212> PRT <213> Unknown Organism <223> Description of Unknown Organism: Epitope

recognized by the 7E11 monoclonal antibody

<400> 37

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Asp Asn Ala Gln Leu Arg

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<210> 38
<211> 10
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<213> Unknown Organism
<223> Description of Unknown Organism: Epitope
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<400> 38
Leu Asp Leu Ser Asp Asn Ala Gln Leu His
<210> 39
<211> 10
<212> PRT
<213> Unknown Organism
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<223> Description of Unknown Organism: Epitope
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Leu Asp Leu Gly Asp Asn Arg His Leu Arg
                  5
<210> 40
<211> 10
<212> PRT
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Leu Asp Leu Gly Asp Asn Arg Gln Leu Arg
                  5
<210> 41
<211> 16
<212> PRT
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<400> 41
Ala Asp Leu Ser Asp Asn Ala Gln Leu Arg Val Val Asp Pro Thr Thr
                  5
                                      10
<210> 42
<211> 16
<212> PRT
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<213> Unknown Organism
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<223> Description of Unknown Organism: Epitope
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                                     10
<210> 43
<211> 16
<212> PRT
<213> Unknown Organism
<220>
<223> Description of Unknown Organism: Epitope
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<400> 43
Leu Asp Leu Ser Asp Asn Ala Ala Leu Arg Val Val Asp Pro Thr Thr
<210> 44
<211> 16
<212> PRT
<213> Unknown Organism
<223> Description of Unknown Organism: Epitope
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Leu Asp Leu Ser Asp Asn Ala Gln Leu His Val Val Asp Pro Thr Thr
                                      10
                  5
<210> 45
<211> 16
<212> PRT
<213> Unknown Organism
<223> Description of Unknown Organism: Epitope
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<210> 46
<211> 16
<212> PRT
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recognized by the 7E11 monoclonal antibody

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Leu Asp Leu Ser Asp Asn Ala Gln Leu Ala Val Val Asp Pro Thr Thr
                                     10
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<211> 16
<212> PRT
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<220>
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Leu Asp Leu Ser Asp Asn Ala Gln Leu Arg Ser Val Asp Pro Ala Thr
                  5
<210> 48
<211> 19
<212> PRT
<213> Unknown Organism
<220>
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<400> 48
His Val His Pro His Ala Phe Arg Asp Leu Gly Arg Leu Met Thr Leu
                                      10
Tyr Leu Phe
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